



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Initial Physical Connection Test & Maintenance Report

BSDW-IPCTMR 01/02

Physical Connection Permit No. _____

Date of Test ____ / ____ / ____

Instructions: After installation this form is to be completed for the initial test of each proposed Physical Connection Backflow Prevention Valve, performed by a Certified Tester and shall be submitted with the Application Form for Initial Physical Connection Permit to the Bureau of Safe Drinking Water.

To: _____

From: (Name of Permit Holder)

The backflow prevention device identified below has been tested and inspected as required by N.J.A.C. 7:10-10.6 and is certified to be in compliance with this regulation.

Description of Valve

Location of Valve

Manufacturer of Valve _____
Model Number _____ RPZ ☐ DCVA ☐
Serial Number _____ Size _____ in.

Comments & Notations

	PRESSURE TEST			INTERNAL INSPECTION	
	REDUCED PRESSURE ZONE ASSEMBLY			DOUBLE CHECK VALVE ASSEMBLY	
	DOUBLE CHECK VALVE		Relief Valve	1 ST Check	2 ND Check
	1 ST Check	2 nd Check			
Initial Test	Closed Tight <input type="checkbox"/> at _____ psid	Closed Tight <input type="checkbox"/> at _____ psid	Opened at _____ psid	OK <input type="checkbox"/>	OK <input type="checkbox"/>
Passed <input type="checkbox"/>	Leaked <input type="checkbox"/>	Leaked <input type="checkbox"/>		Failed <input type="checkbox"/>	Failed <input type="checkbox"/>
Failed <input type="checkbox"/>	No. 2 Shut-off Valve Closed Tight <input type="checkbox"/> Leaked <input type="checkbox"/> By-pass used <input type="checkbox"/>		Did Not Open <input type="checkbox"/>		
Repairs & Materials Used					
Test After Repair & Assembly	Closed Tight <input type="checkbox"/> _____ psid	Closed Tight <input type="checkbox"/> _____ psid	Opened at _____ psid	OK <input type="checkbox"/>	OK <input type="checkbox"/>

The Results Shown Above are Certified to be True.

Witnesses to test & Inspection

Certified Testers Name _____

Name _____ Title _____

Certified Testers Signature _____

Representing _____

Certifying Authority _____

Name _____ Title _____

Cert. ID# _____ Expiration Date ____ / ____ / ____

Representing _____

Test Procedure for Backflow Preventer Valve Assembly

Set Up Procedure for Testing

1. Verify that upstream shut-off valve No. 1 is open, and there is water pressure. Close downstream shut-off valve No. 2. **Note for Reduced Pressure Zone Valves:** A discharge from the relief port indicates a leaking No. 1 check valve. If there is no discharge No. 1 check can be assumed to be holding tight.
2. Flush test cocks Nos. 2, 3 & 4.
3. Close Test Kit high valve (A) and low valve (B), leave vent valve (C) open.

Reduced Pressure Zone Valve Assembly Test

- A) Test the **first check valve** for tightness at a minimum of 5 PSID of static pressure:
1. Connect high-pressure hose to test cock #2.
 2. Connect low-pressure hose to test cock #3.
 3. Open test cocks #2 & #3.
 4. Open test kit high valve (A) and bleed air and water through vent hose... Close high valve (A).
 5. Open test kit low valve (B) and bleed air and water through vent hose... Close low valve (B) **Slowly**.
 6. Observe stable differential pressure on gauge and record on test form. (Must be 5 PSID Minimum)
- B) Test the **second check valve** for tightness against backpressure:
1. Connect vent hose to test cock #4.
 2. Open test cock #4.
 3. Open test kit high valve (A)... **Slowly**.
 4. Observe gauge and record on test form. Second check is tight if differential pressure drops slightly and holds steady. If pressure continues to drop until relief port discharges second check is leaking.
- C) Test **No. 2 shut-off valve** for tightness:
1. Close test cock #2.
 2. Observe gauge, if #2 shut-off valve is tight gauge will hold steady, if leaking the differential pressure will fall. Record result on form.
- Note:** If No. 2 shut-off valve is leaking tests **A & B are invalid** since the valve is not in a static condition. Another shut-off valve downstream or a temporary by-pass from test cock #1 to test cock #4 must be utilized.
- D) Test the operation of the **differential pressure relief valve:**
Relief valve must open at a minimum of 2PSID below inlet.
1. Open test cock #2, test kit high valve (A) shall remain open and close test kit vent valve (C).
 2. **Slowly** open the test kit low valve (B) until the differential pressure begins to fall... **Slowly**.
 3. Observe the relief valve port for the first discharge of water and record the pressure differential on the gauge at this point on the form.

Double Check Valve Assembly Test

- A) Test the **first check valve** for a minimum of 1 PSID of static pressure drop:
1. Connect high-pressure hose to test cock #2.
 2. Connect low-pressure hose to test cock #3.
 3. Open test cocks #2 & #3.
 4. Open test kit high valve (A) and bleed air and water through vent hose... Close high valve (A).
 5. Open test kit low valve (B) and bleed air and water through vent hose... Close low valve (B) **Slowly**.
 6. Observe stable differential pressure on gauge and record on test form. (Must be 1 PSID Minimum)
- B) Test the **second check valve** for a minimum of 1 PSID static pressure drop: (close test cocks #2 & #3 and remove high & low-pressure hoses)
1. Connect high-pressure hose to test cock #3.
 2. Connect low-pressure hose to test cock #4.
 3. Open test cocks #3 & #4.
 4. Open test kit high valve (A) and bleed air and water through vent hose... Close high valve (A).
 5. Open test kit low valve (B) and bleed air and water through vent hose... Close low valve (B) **Slowly**.
 6. Observe stable differential pressure on gauge and record on test form. (Must be 1 PSID Minimum)
- C) Test **No. 2 shut-off valve** for tightness:
1. Repeat procedure for test A.
 2. Connect vent hose to test cock #4.
 3. Open test cock #4.
 4. Open test kit high valve (A) **Slowly**.
 5. Close test cock #2.
 6. Observe gauge, if #2 shut-off valve is tight gauge will hold steady, if leaking the differential pressure will fall. Record result on form.
- Note:** If No. 2 shut-off valve is leaking tests **A & B are invalid** since the valve is not in a static condition. Another shut-off valve downstream or a temporary by-pass from test cock #1 to test cock #4 must be utilized.